

17. A phytase that comprises:

(a) the amino acid sequence of SEQ ID NO: 26 or amino acid residues 1-441 of SEQ ID NO: 26; or

(b) the amino acid sequence encoded by nucleotides 12-1412 or 90-1412 of SEQ ID NO: 25.

18. A phytase comprising:

(a) the amino acid sequence of SEQ ID NO: 31,

(b) the amino acid sequence of SEQ ID NO: 31 in which the amino acid residue at position 24 is glutamine,

(c) the amino acid sequence of SEQ ID NO: 31 in which the amino acid residue at position 65 is lysine,

(d) the amino acid sequence of SEQ ID NO: 31 in which the amino acid residue at position 24 is glutamine and the amino acid residue at position 65 is lysine,

(e) the amino acid sequence of residues 1-441 of any of (a) – (d), or

(f) the amino acid sequence encoded by nucleotides 1-1401 or 79-1401 of SEQ ID NO: 30.

19. A phytase comprising:

(a) the amino acid sequence of SEQ ID NO: 29,

(b) the amino acid sequence of SEQ ID NO: 29 in which the amino acid residue at position 24 is glutamine,

(c) the amino acid sequence of SEQ ID NO: 29 in which the amino acid residue at position 65 is lysine,

(d) the amino acid sequence of SEQ ID NO: 29 in which the amino acid residue at position 24 is glutamine and the amino acid residue at position 65 is lysine,

(e) the amino acid sequence of residues 1-441 of any of (a) – (d), or

(f) the amino acid sequence encoded by nucleotides 1-1401 or 79-1401 of SEQ ID NO: 28.

20. A phytase comprising the amino acid sequence of SEQ ID NO: 27.

21. A food or feed composition comprising the phytase of claim 15.

22. A food or feed composition comprising the phytase of claim 16.

23. A food or feed composition comprising the phytase of claim 17.

24. A food or feed composition comprising the phytase of claim 18.

D² 25. A food or feed composition comprising the phytase of claim 19.

26. A food or feed composition comprising the phytase of claim 20.
